

POULTRY FACTS

COST OF RENEWING A FLOCK

Interesting Figures Given of Results of Experiments With Old Hens at the Utah Station.

Bulletin 135 of the Utah experiment station gives the results of a study in annual egg production. This is based on the records of a flock of seven-year-old hens and their progeny, and figures given are very interesting. For example, a White Leghorn hen in her pullet year laid 103 eggs. Under the usual system of judging layers, this hen would have been discarded as a drone, but the



White Leghorn Cockerel.

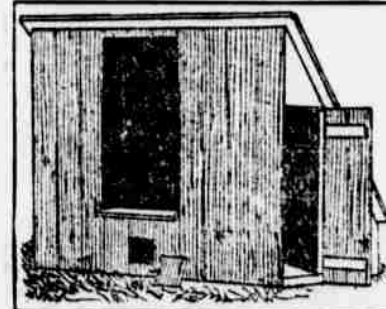
next year she came back with 197 and repeated with 108. In her fourth year she fell down to 72, yet in her sixth year she laid as many as she had when a pullet. It is a question whether it paid to keep this hen after her third year, but such records are necessary in order to learn definitely about such things.

The cost of renewing the flock is considered one of the greatest drawbacks to the poultry industry, the authors estimating the cost of a pullet—probably up to laying age—at from 50 to 60 cents. The average productive life of hens cannot be estimated at this stage of their work, but for the strain used in their studies was thought to be about four years. The range of individual egg production in their flocks was found to be from 100 to 160 in the first year, from 105 to 140 in the second year and from 100 to 130 in the third year. After the third year the production remained fairly constant at about 90, with a variation of not more than 10 or 15 eggs per year.

SERVICEABLE POULTRY HOUSE

Portable Colony Structure Shown in Illustration Will Accommodate Ten to Fifteen Fowls.

Here is a poultry house that will accommodate from 10 to 15 fowls, according to the amount of yard room, breed, etc. It is known as a colony house and is portable, so that it can be moved from one part of the field to another, says a writer in Western Farmer. The building is 9 feet long and 7 feet wide and about 6 feet high at the center and 18 inches at the eaves. The door is covered with fine wire netting, so as to provide light and ventilation. If desired the door



Portable Colony House.

can be covered with a muslin curtain, which can be swung open during the day and on warm nights. The chief recommendation for a house of this shape is the economy of labor and material needed to build it. Many poultrymen find the colony house, which is easily constructed and at a low cost.

Rains Kill Young Ducks.
Getting the body wet in spring or early summer will generally kill a young duck or gosling. Dampness will give them rheumatism and cold, and cold will bring on sore eyes. A young duck caught in the rain will often raise its head, open its mouth, and stand stone still until it drowns, when but a few feet farther along it could have found shelter.

White Holland Turkey.
It is claimed for the White Holland turkey that it is the hardest variety known, the most quiet in disposition, among the heaviest layers, quality of flesh surpassing all other breeds; early maturity, maturing the first season.

Ration for Sitting Hens.
Whole corn is the best ration for sitting hens. Give them all they will eat of it once a day. Don't feed the sitters with the rest of the flock. They should have some grass, also clean, fresh water to drink, some grit and charcoal.

Start in Chicken Business.
While it is desirable it is not always necessary to start in the chicken business with a flock of purebreds. Buy the best hens you can afford and then spend as much more as you can afford for a purebred cock.

Growth of Duckling.
The most notable growth of the duckling is between the third and fourth week of its age, when it often doubles its weight.

ROUTS GARDEN PESTS

Insecticide Distributed by Means of Ordinary Hose.

Water Passes Around Bug Destroyer and Sprays on Affected Plants—Troubles of Mixing Spray Solutions Avoided.

Eternal spraying is the only way to make any impression on the horde of bugs and blights which inflict their presence on the garden. Anyone who undertakes to raise a few plants soon learns that there are many tribes of bugs for every kind of vegetation, and in order to prevent a struggling plant from utter destruction it is almost necessary to stand guard over it with an insect powder gun.

Spraying is like making love to a widow. It is hardly possible to overdo it. If the solution made use of is of the correct composition and the proportion right frequent and thorough



Pest Destroyer.

applications will keep down the horde of bugs and pests which are likely to find their way into the garden.

The latest and easiest way of doing this is to apply the insecticide by means of the garden hose, thus doing away with the troubles and inconveniences of mixing up spraying solutions and the use of the sprayer.

The pest destroyer in this instance is in the shape of a cake in a container which is secured to the end of the hose at the sprayer. Thus all the water must pass around the cake of bug destroyer and it impregnates all the water that is applied to the garden. When the cake is consumed it is a simple matter to replenish it.

The material designed for this use is said to have all the elements in it necessary to kill all the bugs which attack vegetation, to retard scale formation and to scatter ants.

WHEN TO PRUNE THE GRAPE

Work May Be Done From Dropping of Leaves in Fall to Swelling of Buds in Spring.

(By U. P. HEDRICK, Massachusetts Experiment Station.)
Grapes may be pruned from the dropping of the leaves in the fall to the swelling of the buds in the spring. Pruning after sap begins to flow is devastating. It is seldom advisable to prune when vines are frozen, as the brittle canes are easily broken during handling.

Summer pruning is far less practiced now than formerly, with a tendency to do less and less of it. It is used to remove surplus shoots and in heading back canes to keep them within limits.

Very often shoots grow from weak buds on the fruiting canes to the detriment of the fruit-bearing shoots. These weaklings should be rubbed off. So, too, shoots often break from arms, spurs or even the trunk where they are not wanted. These should be removed. Secondary shoots sometimes appear on fruiting shoots, especially in the axils of the latter; these should be rubbed off. Here, for the most part, summer pruning should end.

KEEP IMPROVEMENT AT PAR

Always Room to Improve Dairy Cow for Better and Higher Production of Milk.

Before we scold at purity of breeding in cows, let us sit down and reason a bit. Are all cows equally good? Aren't there more good ones than there were when man first began to use them? Hasn't the cow proved Darwin's theory of adaptation?

Granted any improvement over the wild cow, isn't there room for more? Isn't it foolish not to help? Isn't it sinful not to take advantage of the improvement and keep it up to par?

Plant Plenty of Peas.

Plant plenty of peas in the garden and plant them as early as you can. Such sorts as Little Marvel, which is dwarf and needs no support, may be planted at successive times and will furnish delicious peas throughout the season. Laxtonian is another fine quality dwarf pea. It is no longer necessary to plant tall peas to get high quality.

Garden for Home Table.
Have a vegetable garden for the benefit of the home table, and grow in it a little of everything that can be grown in your locality. Try some things that you never grow before.

Practical Needles.
A garden drill and a hoe are practical necessities in a farm garden of proper size. They will pay their cost many times in saving labor and increasing yields.

Clover and Timothy.
A good stand of clover and timothy is usually secured on corn land that has not been plowed, but has been carefully disked in preparation for the grain crop.

Economical Work.
Implements adapted to your farm work will pay the best profits because they will make it possible to do the work most economically.

FARM ANIMALS

PROPER CARE OF BROOD SOW

Animal is Often Neglected Before and After She Is Bred—Furnish Her With Separate Pen.

The care of the brood sow is too many times neglected before and after she is bred. Many times they are kept in the same lot with the fattening hogs, which is a sad mistake and almost sure to result in a weak bunch of pigs. Good care at this time means much towards a good crop of strong, healthy pigs.

In the first place the sows should have a separate lot from the rest of the hogs, and it should be large enough so they get plenty of exercise. If they do not take plenty of exercise, they should be urged to do so either by driving them daily or by having their sleeping quarters and their feeding place some distance apart.

Another good plan, if a person has his farm fenced hog tight, is to let the sows have the run of the farm. They



Pigs in Clover.

will wander around quite a little if the weather is nice, and pick up a good deal of their living.

Another important part at this time is the feed. Their feed should be of rather a bulky ration. Corn should be fed moderately along with alfalfa hay, some mill feeds, and a small quantity of oil meal or tankage. The sows should be kept gaining slowly from the time they are bred till farrowing time, and care should be taken that the feeds are not too fattening.

A week or so before farrowing time, each sow should be shut by herself and watched closely. Her feed should be reduced a little.

If this plan were followed more closely, the average of the pig crop would be somewhat larger.

SHEEP AND SOIL FERTILITY

Everything Possible Should Be Done to Bring Ewes to Vigorous Condition at Mating Period.

As the country ages and the fertility of its fields becomes exhausted its appreciation of the sheep will increase. Early maturity is an important quality to consider in selecting sheep.

Whether you are keeping sheep for pleasure or profit, your desires will be more fully met if your flock is of superior quality. A strong sheep does not necessarily have to mean a large one; in fact a majority of the strongest sheep are medium in size.

Every sheep owner should keep a purebred ram, but every man is not qualified to keep purebred stock. Everything possible should be done to bring the ewes to a vigorous, flesh-forming condition at the mating period. Sheep are excellent farm cleaners, weed killers and fertilizers.

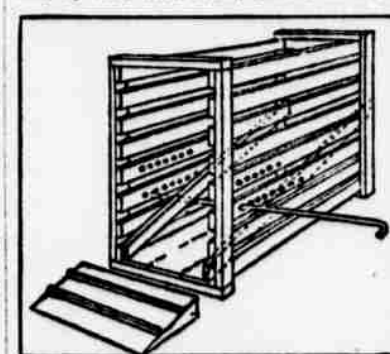
The man who desires large profits from his flock should afford it the best that good management will produce.

BREEDING CRATE FOR SWINE

Stout Frame Made of Two by Four Stuff, Closed in Front and Open Behind, Is Useful Device.

In answer to a query for an illustration and description of a breeding crate for hogs, one is taken from "Swine in America," by Coburn, and is given herewith:

"It is a stout frame made, say, of two by four inch stuff, closed in front



A Breeding Crate.

and open behind, with a bar adjusted to slip behind the sow above the hocks, and a two by four inch strip attached to the forward end of the crate on either side at about where the sow's head comes, and extending to the rear and bottom where it is fastened. These strips are for the sow's forward feet to rest upon and hold his weight off the sow. A very good size for such a crate is five and one-half or six feet in length, two feet four inches in width, and three feet high. Cleats can be nailed crosswise of the crate floor to prevent the sow's slipping. When necessary, in breeding a small brood to a large sow, a raised platform for his hind feet, such as the illustration shows, can be produced."

Rheumatism in Pigs.
The first thing to do is to put the pigs in dry, comfortable quarters, if they are not already there. Keep them away from old straw stacks or manure heaps. Bed them well with clean, dry straw in a house that is well lighted and ventilated, but free from drafts. Salicylate of soda is the most useful drug to give. The dose is 20 to 30 grains in the feed, or, as a drench, three times a day. Quinine and bitter tonics can also be given. Blistering ointments and liniments should be applied to the inflamed articulations.

Backache Spells Danger

Census records show that deaths from kidney disorders have increased 725 in 20 years. People can't seem to realize that the first pain in the back, the first disorder of the urine, demands instant attention—that it may be a signal of coming gravel, dropsy or fatal Bright's disease. The best prevention of serious kidney disorders is prompt treatment—the best medicine is Doan's Kidney Pills.

An Illinois Case

"My wife, Mrs. Mattilda McHenry, 722 Madison Ave., East St. Louis, Ill., says: 'I was troubled by irregular kidney action, my back ached, my head ached, and I had dizzy spells. I felt tired, weak and nervous, and could hardly stand. I tried many remedies, but Doan's Kidney Pills helped me as soon as I took them and completely cured me. I owe my present health to them.'"

Get Doan's at Any Store, 50c a Box
DOAN'S KIDNEY PILLS
POSTER-MILBURN CO., BUFFALO, N. Y.

MARRIAGE SERMON MADE HIT

Couple Interrupted Discourse on Subject in Maryland and Parson Tied Knot.

The regular service in the Baptist church at Frederick, Md., was turned into a wedding ceremony on Sunday evening when someone walked up the aisle and whispered in the ear of the pastor, Rev. George W. Whiteside, as he was in the midst of a sermon entitled, "Take Unto Thyself a Wife."

The pastor nodded his head in answer to the whisper and a moment later Lillian C. Rockwell and Miss Nellie H. Barger walked to the altar and were married. The sermon was not finished.

MISSOURI SUFFERERS FIND GREAT REMEDY

Thousands needlessly suffer from stomach ailments, handicapped in their work and pleasure. The stomach is the mainspring of life and the body cannot run without it.

You want to be well quick. A great many people in Missouri and thousands all over the country have found the way to health by the use of Mayr's Wonderful Remedy. The first dose shows results. Here are the words of two Missourians: "J. E. TRILINGER, of Norborne, Mo., wrote: 'Two weeks cannot express my appreciation of your medicine. I have felt fine all summer and fall. Am gaining weight.'"

W. T. JENNINGS, cashier of Bank of Boonville, Mo., writes: 'Please send four more bottles of the stomach remedy. Both my wife and I use this medicine and think it truly wonderful.'"

Mayr's Wonderful Remedy gives permanent relief to stomach, liver and intestinal ailments. Eat as much and whatever you like. No more distress after eating, pressure of gas in the stomach and around the heart. Get one bottle of your druggist now and try it on an absolute guarantee—if not satisfactory money will be returned.—Adv.

Why He Kept a Servant.

In the days when he was superintendent of the Portsmouth dockyard in England, Lord Fisher, the present admiral of the British fleet, had the saddest attitude toward the men; he frequently tested them with all the harshness of a whaling captain; they, in turn, treated him with a half-friendly, half-hostile familiarity.

Several years after his Portsmouth days Fisher visited one of his old associates of the fleet who was then living on half-pay. He found the old man comfortably settled in a cottage, attended by another superannuated seaman.

"Why do you have this other man here?" asked the admiral.

"I keep 'im 'ere," said the pensioner. "To come up into my quarters at five o'clock in the mornin' an' sing out 'Hi there.' At that I merely rolls over in my bed, and says, 'Tell old Fisher to go to 'ell.'—World's Work."

CLEAN SWEET SCALP

May Be Kept So by Cuticura Soap and Ointment. Trial Free.

To have good hair clear the scalp of dandruff and itching with shampoos of Cuticura Soap and touches of Cuticura Ointment to dandruff spots and itching. Nothing better than these pure, fragrant, supercreamy emollients for skin and scalp troubles.

Sample each free by mail with Skin Book. Address Cuticura, Dept. XY, Boston. Sold everywhere.—Adv.

First Aid.

An artillery battle was raging. The din was terrific. Suddenly a war correspondent, one of the favored few permitted to see a little real fighting, clapped his hands to his ears and cried, "I fear my tympanum is split!" "Too bad!" roared a friendly "Tommy." "I've got a needle and some thread in my kit, if that'll help you any."

The Peace Zone.
"You and your wife are always jawing when you are out."

"Yep."

"But you become very loving when you draw near home. I suppose that is for the benefit of us neighbors."

"Yep. No scraping allowed within a three-block limit."

Passing It Along.
"Why did you let the office boy off?"

"Said his grandfather was dead."

"You swallow that old excuse?"

"I may not swallow it, but I accept it. My boss used to honor it when I was a kid."

One little peek-a-boo makes the whole world peck.

WESTERN CANADA SEEDING FINISHED

Wheat and Other Grains Have Had an Excellent Start.

The seeding of spring wheat was pretty general this spring about 7th of April or about as early as in Illinois and Iowa. Oats and barley followed. Information is to hand that on first of May all seeding was practically finished. Farmers will now be busy at their breaking, and the land for summer fallow will be entered upon. Some who did not get their land prepared last fall, will be later than the others, but as the spring in Western Canada has been very open they will be only a few days later. At the time of writing rain would be welcome, but at seeding time, the ground contained a splendid lot of moisture and the lack of rain at the present time will not be serious. The number of farmers who have come into the raising of cattle has been considerably increased, and the preparation for extensive cultivated grass pastures is in evidence everywhere. The cultivation of fodder corn is being largely entered upon in Manitoba there being upwards of 25,000 acres in corn. In Saskatchewan there will be a large increase in the area planted, and in Alberta many of the more progressive farmers are taking hold of it. The yield varies according to the cultivation it receives, and runs from five to nine tons per acre. In some portions of Manitoba where it has been poor for some years, success has been achieved in ripening and it is expected that a variety will soon be developed that will provide seed for the entire West, that will at an early date give to Western Canada a fame for the growing of a marketable corn equal to that it has now for the growth of smaller cereals.

A trip through Western Canada reveals a field after field of alfalfa, the growth of which in any portion of the country is now absolutely assured. When these facts are made known to the farmers of the corn and alfalfa growing states, where their value as wealth makers is so well known, there will be no hesitancy in taking advantage of the splendid gift of 160 acres of land made by the Government of the Dominion of Canada, where equal opportunities are offered. Besides these free grant lands, there are the lands of some of the railway companies and large land companies, that may be had at low prices and on reasonable terms. During the month of February a large number of inquiries were received, asking for farm lands.

An encouraging feature of the farm land situation in Canada is the large percentage of sales made to settlers in the country who desire to increase their holdings or to others who will take up farming in place of different occupations previously followed.—Adv.

Being and Doing.

As the man is in the integrity of his character, so is his strength. Being is everything. It conditions happiness; it determines and measures service. A man's happiness depends upon what he is in himself. A man's service to others is conditioned upon what he is in himself. Being is basic to doing. As the speed of the electric car is determined by the energy stored in the power house, as the power of the piston rod is determined by the push of accumulated steam, so personal power is determined and measured by character. This is supreme power, a character filled with the divine presence and radiant with a divine holiness.

To Drive Out Malaria

And Build Up The System Take the Old Standard GROVE'S TALESTICK CHILL TONIC. You know what you are taking, as the formula is printed on every label, showing it is Quinine and Iron in a tasteless form. The Quinine drives out malaria, the Iron builds up the system. 50 cents. Adv.

All Work Together.

The present war, terrible as it is, is said to have brought women of all classes nearer together than anything else could ever possibly have done in Europe. In England the mistress and maid each try to outdo the other in bravely going on with their work, forgetful of the sorrow that they may only recently have suffered. In London there are plenty of social affairs, but these are all for a serious purpose. The "teas" and "luncheons" are simply for the sake of getting together to decide what the next work shall be. It is probably the same in other countries at war.

ALLEN'S FOOT-POWDER FOR THE TROOPS
Over 100,000 packages of Allen's Foot-Powder, the antiseptic powder to shake into the shoes, are being used by the German and Allied troops at the front because it relieves the feet, gives instant relief to corns and blisters, relieves itching, tender feet, and makes walking easy. Sold everywhere. See TRY IT TODAY. Don't accept any substitute. Adv.

Might Mark the Spot.

They were two days out, and the young bride was dreadfully seasick. "Henry, dear," she moaned, "if I should die and they bury me here, you'll come sometimes and plant flowers on my grave, won't you?"—Boston Transcript.

YOUR OWN DRUGGIST WILL TELL YOU
Try Murine Eye Remedy for Red, Weak, Watery Eyes. It is the only safe, reliable eye remedy. Just eye complaint. Write for Book of the Eye by mail free. Murine Eye Remedy Co., Chicago.

Quite So.

"What is the first step necessary in cultivating an artistic temperament?"

"Finding somebody to stand for it."

If a girl has money to burn she can easily secure a parlor match.

NATIONAL SONG OF CHINA

Country Has Awakened to the Need of Melody to Inspire Patriotism.

After the rejection of eight national anthems composed in China since the revolution, that of the Chinese minister to Belgium, Wang Yau Pao, which, together with the song of the minister of agriculture, commerce and trade, Chang Tseih, belongs to the latest compositions, is likely to be accepted by the Chinese government. Following is a translation of the first three stanzas.

"China, the sublime mountains and luxuriant plains attest thy greatness. Country of wonders, through thy hoary civilization thy emperors have sacrificed themselves in ceding the rule to the people.

"The people have the supreme power. So has taught Confucius and Mengtse. And already in the hoary times of Yao and Shun it had thus been announced to the people. The people is composed of five tribes. The unity of the five tribes is past dispute. Then China is invincible.

"Develop the wealth of the country. Improve agriculture, and make the people happy. Education and culture are the achievements of centuries. All citizens are equal; for Confucius and Mengtse have taught social equality."

—Philadelphia Record.

Use of New Woods.

There has never been in this country enough appreciation of the possibilities of good elm in cabinet work and interior trim, says *Hardwood Record*. Elm has been extensively used in the furniture trade for many years, but generally in the making of cheap furniture, in which no effort is made to finish it to bring out the native beauty of the elm. Also, once now and then it is used in house trim. Right now there should be a splendid opportunity to develop the use of good elm. Popular taste is turning toward the softer tones in brown and gray, and here elm should enter readily. It has no distinctive figure, but it has a soft color. Some gray elm when polished and finished as it should be presents a beautiful appearance, and the red elm, properly finished should look exceptionally fine.

Largest Freight Locomotive.

The "Matt H. Shaw," the large triple Mallet locomotive built by the Baldwin Locomotive works for the Erie railroad, recently made a trial trip over the Baltimore & Ohio railroad from Baltimore to Philadelphia. The trainload consisted of 55 coal cars carrying 4,012 tons of coal. The total weight of the train, including the locomotive, must have been about 6,500 tons.

The train left Baltimore at 6:10 in the morning and reached Philadelphia at 4:30 in the afternoon, taking ten hours and twenty minutes for the 95-mile trip. The engine weighs 423½ tons in working order, and its drawbar pull, working compound, is 80 American tons.

Her First Thought.

My little cousin was spending the summer at the lake. One day she and her mother and father had been out in their motor boat, and when she was getting out of the boat on the narrow plank which ran through the center of the boathouse she was warned to be careful and not fall into the water. Regardless of the warning, she slipped and fell head first into the water, which was considerably over her head. She was rescued immediately, and her first words when she managed to get her breath were: "Did I make a big splash?"—Exchange.

Important to Mothers.

Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it bears the

Signature of *Dr. J. C. Fletcher* in Use For Over 30 Years. Children Cry for Fletcher's Castoria

His First Duty.

"I suppose you know all about railroads, banking and currency, and kindred subjects?" "No," replied Senator Sorghum. "If I studied all those things I'd have so little time to make speeches that my constituents would think I was neglecting my business."

Human Nature.

It may not occur to those eminent investigators who contemplate a report upon the causes of human unrest that they can cover the whole subject in just two words.—New York Herald.

The most complicated task is that of getting a meal in a cafeteria.

Canadian Wheat to Feed the World.

The war's fearful devastation of European crops has caused an unusual demand for grain from the American Continent. The people of the world must be fed and there is an unusual demand for Canadian wheat. Canada's invitation to every industrious American is therefore especially attractive. She wants farmers to make money and happy, prosperous homes for themselves while helping her to raise immense wheat crops.

You can get a Homestead of 160 acres FREE and other lands can be bought at remarkably low prices. Think of the money you can make with wheat at its present high prices, where for some time it is liable to continue. During many years Canadian wheat fields have averaged 20 bushels to the acre—many yields as high as 45 bushels to the acre. Wonderful crops also of Oats, Barley and Flax.

Mixed farming is fully as profitable an industry as grain raising. The excellent grasses, full of nutrition, are the only food required either for beef or dairy purposes. Good schools, markets, climate excellent.

Military service is not compulsory in Canada. There is no conscription and no war tax on land.

Write for literature and particulars as to reduced railway rates to Superintendent Immigration, Ottawa, Canada, or

G. A. Cook, 125 W. 9th St., Kansas City, Mo.; C. J. Broughton, Room 412, 115 W. Adams St., Chicago, Ill.

Canadian Government Agents

REMARKABLE CASE of Mrs. HAM

Declares Lydia E. Pinkham's Vegetable Compound Saved Her Life and Sanity.

Shamrock, Mo.—"I feel it my duty to tell the public the condition of my health before using your medicine. I had falling, inflammation, female weakness, pains in both sides, backaches and bearing down pains, was short of memory, nervous, impatient, passed sleepless nights, and had neither strength nor energy. There was always a fear and dread in my mind. I had cold, nervous, weak spells, hot flashes over my body. I had a place in my right side that was so sore that I could hardly bear the weight of my clothes. I tried medicines and doctors, but they did me little good, and I never expected to get out again. I got Lydia E. Pinkham's Vegetable Compound and Blood Purifier, and I certainly would have been in grave or in an asylum if your medicines had not saved me. But now I can work all day, sleep well at night, eat anything I want, have no hot flashes or weak, nervous spells. All pains, aches, fears and doubts are gone, my house, children and husband are no longer neglected, as I am almost entirely free of the bad symptoms I had before taking your remedies, and all is pleasure and happiness in my home."

—Mrs. JOSIE HAM, R. F. D. 1, Box 22, Shamrock, Missouri.

If you want special advice write Lydia E. Pinkham Medicine Co., confidential, Lynn, Mass.



Lydia E. Pinkham Medicine Co., confidential, Lynn, Mass.